

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MAX BRAUN ET AL

Serial No.: not yet assigned

Filed: July 28, 2003

Title: UV-ACTIVATED CHLORINATION PROCESS

(Continuation of Serial No. 10/016,127 filed December 17, 2001)

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.97 and 1.98**

Mail Stop  
Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

Copies of the Forms PTO-1449 and PTO-892 are also submitted herewith, which list the references as also submitted in parent application Serial No. 10/016,127.

An English abstract of Japanese Patent No. 49041166 is submitted herewith.

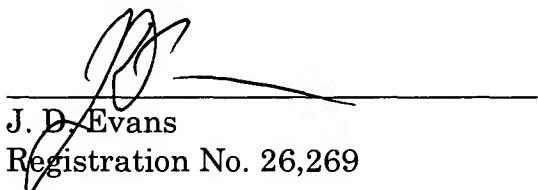
The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no certification under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The Examiner is respectfully requested to confirm receipt and consideration of the documents by initialing and returning a copy of the accompanying form PTO-1449.

Respectfully submitted,

July 28, 2003

  
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Registration No. 26,269

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JDE:dcb

FORM PTO-1449    U.S. Department of Commerce Patent & Trademark Office  <b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		Attorney Docket No. 029300.50616CO	Serial No. not yet assigned
		Applicant: Max Braun, et al.	
		Filing Date July 28, 2003	Group 1753

U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
	AA	4060469	11/1977	Sweeney, et al.			
	AB	5421971	06/1995	Puy, et al.			
	AC	5944962	08/1999	Boyce			
	AD	5,336,377	8/9/1994	Yates et al.			
	AE	5,951,830	9/14/1999	Bertocchio et al.			
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION
							Yes      No
	AK	0407989	01/1991	Europe			Abstract
	AL	2318350	04/1998	United Kingdom			
	AM	97/37955	10/1997	WO			
	AN	93/12058	06/1993	WO			
	AO	GB 698,127	10/7/1953	Great Britain			
		EP 0 143 864	6/12/1985	Europe			
		JP 49041166	12/25/1969	Japan			Abstract
	AP	CN 1097189A	01/1995	China			Abstract

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AQ	Mueller et al., "Die photochemischen Chlorierungen von cis-Dichloraethylen zu Tetrachloraethan und von Trichloraethylen zu Pentachloraethan." <i>Z. Phys. Chem. Abt. B</i> , 465-461 (1937).				
AR	Copy of the International Search Report dated Dec. 14, 2000				
AS					

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

**Notice of References Cited**

Application/Control No.

10/016,127

Applicant(s)/Patent Under

Reexamination

BRAUN ET AL.

Examiner

Edna Wong

Art Unit

1753

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,951,830	09-1999	Bertocchio et al.	204/157.15
*	B	US-5,944,962	08-1999	Boyce	204/157.94
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	CN 1097189 A	01-1995	China	Zhejiang Prov. Chemical	-
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
*	U	Muller et al., Die Photochemischen Chlorierungun von cis-Dichlorathylen zu Tetrachlorathan und von Trichlorathylen zu Pentachlorathan, Z. Physik. Chem. B (month unavailable, 1937), pp. 455-461.
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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FORM PTO-1449 U.S. Department of Commerce  
Patent & Trademark OfficeAttorney Docket No.  
173/50616Serial No.  
TBAINFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

Applicant: Max Braun, et al.

Filing Date  
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## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
CS	AA	4060469	11/1977	Sweeney, et al.	204	163R	
	AB	5421971	06/1995	Puy, et al.	204	157.6	
	AC	5944962	08/1999	Boyce	204	157.94	
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## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
CS	AK	0407989	01/1991	Europe	—	—	Abstract	
	AL	2318350	04/1998	United Kingdom	—	—		
	AM	97/37955	10/1997	WO	—	—		
	AN	93/12058	06/1993	WO	—	—		
	AO			/				
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

CS	AQ	ZHENG, et al. "Improved preparation method for 1,1,1-tri:fluoro-2,2,2-tri:chloroethane" Chemistry Acadamy, 1993 = CN 1097189 unpublished	
CS	AR	Copy of the International Search Report	1214100
	AS		

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DATE CONSIDERED

2/25/03

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FORM PTO-1449	U.S. Department of Commerce Patent & Trademark Office	Attorney Docket No. 173/50616	Serial No. 10/016,127
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Applicant: Max BRAUN et al.	
		Filing Date December 17, 2001	Group 1753

U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
CW	AA	5,336,377	8/9/1994	Yates et al.	203	29	
CW	AB	5,951,830	9/14/1999	Bertocchio et al.	204	157.15	
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	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Country	Class	Sub-Class	TRANSLATION
							Yes No
CW	AK	GB 698,127	10/7/1953	Great Britain	—	—	
	AL	EP 0 143 864	6/12/1985	Europe	—	—	
	AM	JP 49041166	12/25/1969	Japan	—	—	Abstract
	AN						
	AO						
	AP						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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	AR						
	AS						

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(Use several sheets if necessary)

Atty. Docket No.  
173/50616

Serial No.  
not yet assigned

Applicant  
Max Braun et al.

Filing Date  
December 17, 2001

Group 1753

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	AG						
	AH						
	AI						
	AJ						

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	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W	AR	Mueller et al., "Die photochemischen Chlorierungen von cis-Dichloraethylen zu Tetrachloraethan und von Trichloraethylen zu Pentachloraethan." Z. Phys. Chem. Abt. B, 465-461 (1937). month unavailable
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